WITH THE FARMERS

By Prof. W. F. MASSEY



ea aphis, or lice.

from 300 to 500 pounds an acre, and they are worth the cost as a fertilizer. As an application on clover, there will they are worth the cost as a fertilizer. As an application on clover, there will be no difference between nuriate and shovelfull to a hill? Those droppings criment, which are as follows: Com-Alfalfa Failure.

Southampton County: "I sowed two acres in alfalfa October 25th on what I have been growing clover for years Applied a ton of lime an acre. The seed came up well, but now seems to have disappeared, and the land is covered with little May weeds, and very little alfalfa is to be seen. I used 500 pounds of acid phesphate and fifty pounds of the muriate of potash an acre. Would you advise sowing alfalfa again this spring. If not, what would you put on the land? This land will make 100 bushels of corn an acre." The first mistake you made was in sowing the seed a month or more too late. You should have gotten a strong growth to go into winter.

In the chickenhouse. Would this do any harm? I also have a lot of nice any harm? I also have a lot of nice any harm? I also have a lot of nice any harm? I also have a lot of nice any harm? I also have a lot of nice any harm? I also have a lot of nice any harm? I also have a lot of nice any harm? I also have a lot of nice any harm? I also have a lot of nice any harm? I also have a lot of nice any harm? I also have a lot of nice any harm? I also have a lot of nice any harm? I also have a lot of nice any harm? I also have a lot of nice any harm? I also have a lot of nice any harm? I also have a lot of nice of the portation, Electricity, Streets, Relief of the Poor. Markets, Cemeteries, Light, Street Cleaning and Local Assessments. The biast of the Poor, Markets, Cemeteries, Light, Street Cleaning and Local Assessments of the Poor, Markets, Cemeteries, Light, Street Cleaning and Local Assessments. The biast of the Poor, Markets, Inght, Street Cleaning and Local Assessments. The biast of the Poor, Markets, Inght, Street Cleaning and Local Assessments. The biast of the Poor, Markets, Inght, Street Cleaning and Local Assessments. The biast of the Poor, Markets, Inght, Street Cleaning and Local Assessments. The biast of the Poor, Markets, Inght, Street Cleaning and Local Assessments. The biast of the Court of the Poor Markets, Inght, Street Cleaning and Local Assessments. The biast of

lodge. Something that will stiffen the growth will be better, such as an application of acid phosphate or Thom-

about \$ 1-4 feet high, and I had to time the mower came around. A gov clover's land in corn the next year and it did axing quality in the clover, give it a not make as much as it usually did.

True it was a dry season. I put it back in corn, but the season was so lime, and that too will promote the wet at the time the corn most needed activity of the organisms on the roots weed destroying, that the weeds and of clover that get nitrogen from the grass got the best of it. I am at a air. loss what to do with it this year. I am plowing it now, that is, a portion

have hever seen an animal eat it un-til starved into it, and once get it on can. your land and you will have another weed. We have so many better lecannot see any reason for the sweet clover in the South. We do not need it, as they do in the cold Northwest. Better sow red clover with the outs.

Nicotine for Cabbage Aphis. the aphis on young cabbage plants as the tobacco decoction." Concentrated chemical nicotine will be too strong "Please t to use on plants. There are some nico-tine preparations made that will answer very well, but if you use pure inco-tine I would assume that it will be best to add at least 100 parts of water to one of the nicotine. It will certain-ly answer if properly diluted. I use a prepared article called Aphine, which is in a concentrated form and add forty parts of water to it, and find it effec-tive. I use it as a spray. You can get this at any seedsman's, and it will be cheaper than pure nicotine.

Tobacco for Green

Aphis.

Lancaster County:
"I, notice in The
Times-Dispatch
that you advise putting tobacco stems in the furrows to prevent the green pea aphis, or lice."

To freight twice as much and spread twice as much an acre as of lime, and then will not get as good immediate effect. And not knowing the quality of marl offered, I can only say that I had rather have 1,000 pounds an acre of good lime than a ton or more of the marl. And marl varies a great deal, and they give you no information in regard to the analysis of their marl.

Fertilizing Cowpens.

Fertilizing Cowpens.

prevent the green pea aphis, or lice, as we call them. These insects entirely destroyed my crop last spring. How many stems should 1 put to the acre, and what will we had a preventive of potash better to top dress clover?" The tobacco stems are an excellent fertilizer, as well as a preventive of aphylice, as they contain about 2.50 per cent of nitrogen, 8.50 per cent potash, and about 1.70 per cent phosphoric acid. They cost at the American Tobacco Company, Durham, N. C., S.50 a ton, and you can use them as ilberally as you please. Perhaps they can be had a little cheaper in Richmond, but I have no prices from there. I would scatter them uniformly along the furrows, and it will probably take from 300 to 500 pounds an acre, and they are worth the cost as a feetilizer.

Chicken Manure.

have had some lime mixed with them in the chickenhouse. Would this do any harm? I also have a lot of nice Printing, Electricity, Streets, Relief of

September, and you would have gotten a strong growth to go into winter. In its very young state it is probable that the only cold snap we had early in January destroyed it. I would not sow this spring, for it would surely be smothered by the crab grass. You can grow a good crop of early Irish potatoes on the land, and after diaging these, sow peas in July and either cut them for hay or turn under in Auaugust and apply 1,000 pounds more lime an acre and harrow it in and sow the alfalfa the last of August or early September, and give it more of the acid phosphate and potash, but harrow these in a week before sowing the seed.

Helping Timothy.

Louisa County: "On land that was in corn last year and made thirty-five bushels of corn an acre we have now timothy. We are afraid that the timothy is too thick for the land and am afraid it will lodge. Have thought of topdressing it with about fifty pounds of nitrate of soda an acre. Would not

Fertilizing Tobacco.

tainly give you a heavier growth and gray, sandy soil that was in peas last more hay, but it will increase any ten-dency to sag or fall. The thickness of put it in tobacco the coming spring?' the grass on land of moderate fertility it have heretofore given the hest forwill hardly cause sagging unless the straw is weak and the phosphate will straighten it, though not making as heavy a growth as the nitrate will.

Peas and Corn.

Louisa County: 'I have a naturally rich piece of land which I sowed in cowpeas three years ago, and have never seen such a growth. They were about 2 1-4 feet high, and I had to "What is the best thing I can use

"What is the best thing I can use, move them away with a fork every as a top dressing now on crimson time the mower came around. A gov clover?" If your object is to get a heavier growth of clover to turn un the time and his eyes fairly danced der, the best thing is to spread stable when he saw the peas. I got one vine manure evenly over it, and this will loose for him that measured over six be of the greatest help to corn. I feet when straightened out. I put the you wish to get the greatest nitrogen

am plowing it now, that is, a portion that has some of that awful pest, wire or Bermuda grass on it, hoping at least to injure the grass. The rest I thought of seeding to oats and sweet clover. Please tell me what you know of sweet clover."

You do not say what you used, if anything, in the way of fertilizer. You grew a heavy crop of peas and cut them, and they drew very heavily on the phosphorus and potassium of the growing of the peas. You cannot improve land through the mere growing of peas. They must be used either as manure clirct or fed and the manure returned to the land that grew them. The best way to get rid of the Bermuda grass is to smother it with peas. Now see to sweet cleaver. I would least the peasy your least the best way to get rid of the Bermuda grass is to smother it with peas. Now see to sweet cleaver. I would least the peasylvania experience of the best period to the least that the mere growing of peas. They must be used either as manure direct or fed and the manure returned to the land that grew them. The best way to get rid of the Bermuda grass is to smother it with peas. Now see to sweet cleaver. Frederick County: "I should like to The best way to get rid of the Ber-muda grass is to smother it with peas. New as to sweet clover. I would leave that to the West and Northwest. I more information on this point than I When growing tomatoes lass I stopped them at three fee the open garden I let them grow taller, and sometimes in training on checken wire netting I train two shoots to the top of the five-foot width wire netting before stopping. This means six feet, as the wire neiting is stretched a foot above the ground. On stakes, I stop them at about four feet, and train to

"Please tell me what you know about Spel z or Emmer wheat? Is it a profitable crop to grow? It has never been grown around here." And you had as well never grow it if you have any interest in wheat. Seltz is a sort of wheat to which the chaff ada sort of wheat to which the chaft adheres like outs. I have seen it, but never grew any, and I would suppore that it would be apt to get mixed with Food wheat and damage the product. It has been grown in the semiarid West, but what it will make an acre! I cannot say, and I suppose that it will content to the if west, but what it will make an acre learner than pure nicotine.

Shell Lime and Marl.

'I wrote to a firm for shell lime and they send me a letter saying that they have no lime, but can furnish me marl, which is 'just as good.' What do you think?" I think that I know nothing about the quality of their marl, but I do know that well-burned shell lime for immediate effect than there is the far hetter for immediate effect than the country. Triticum Dicoccum). Both are simi is far better for immediate effect than the best of marl. If you use marl that he best of marl. If you use marl that har in character, and only suited for is high in time carbonate you will have stock feeding.

BOARD SUBMITS

Tells What Has Been Done During Year and What Is in Contemplation.

WOULD NOT SELL GAS WORKS

Erection of Municipal Building

bilities and authority of twelve Coun-cil committees, formerly engaged in

As expressive of the difficulties with which any new work is undertaken, the report states: "In the outset the board desires to express the conviction that during the first year of its existence it has not been able to measure might and ought to accomplish, having been restrained by certain conditions and limitations beyond its control, but enters upon another year confident of its ability to produce more and better results, sufficient to demonstrate beyond question the wisdom of the creation of the board and its qualifications for usefulness and efficiency; and as a result the constant, though perhaps gradual improvement, in efficiency and usefulness of all the departments under the control of the board." der the control of the board."

Improvements Noted.
Attention is called to the facts that, bushels of corn an acre we have now timothy. We are afraid that the timothy is too thick for the land and am othy is too thick for the land and am of a more well and and am of the land and and the lower part of these, too.

Please advise me what pea is best for sowing among corn. My corn will be somewhat late, and I need an out care to go to the expense unless it is probable that the result would justify it." If you are afraid that the grass will fall or lodge, the worst thing you could do would be to use nitrate of soda, as that you give a rank-ter growth and greater tendency to lodge. Something that will stiffen the growth will be better, such as an application of acid phosphate or Thom.

Bedford County: "It wish to know!" The board having the control of the land and am will never make a hay crop north of the lower flut foots, and the lower flut foots, and will never make a hay crop north of the lower Guif States and the lower part of the lower Guif States and the lower for scalled to the facts that, in every instance underground work has been completed before paving of roadbed or sidewalk was begun; that street improvements have been continuous; that delay in transaction of public business, noticeable when the government was in the hands of sowing the new of sowing the new of the lower flut forms.

Peas in Corn.

"Please advise me what pea is best for sowing among corn. My corn will be somewhat late, and I need an outlete of sowing the new of the last few was in the hands of seedsmen, and the price is high. How many peas an inconditions in the last few years. Lagrand and the price is high. How many peas an inconditions in the last few years. Lagrand and the lower flut is a part of the source The board having the control of the Gas, Water and Street Departments. Bedford County: "I wish to know the work of these departments has been what fertilizer to put on a piece of co-ordinated and complaint against complaint against

their former delay has been silenced. Extensive improvement, the report goes on, has been made in various sections of the city by the grading of dedicated streets, and extensive experiments have been made in the matter of smooth paving to prove what is the most durable material. Reference is made to the fact that in supplying the

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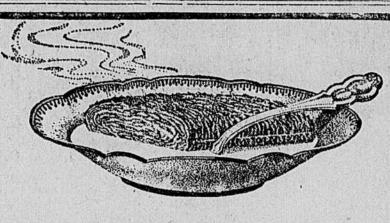
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up to its own conception of what it der control of the board the figures might and ought to accomplish, having have been limited to the actual neces-

Regrets Lack of Bridge Approaches.

It is remarked that the board realizes the unfortunate condition of the approaches to the new bridge, and awaits impatiently such action by the Council as will enable it to take up the matter and push it to a satisfactory conclusion; and that it is rendy with plans for a new Ninth Street bridge or for repairing the old structure. Among seemingly lesser things, the board has insisted on the repair of all street defects and on its refusal to allow any more poles to be erected, except where absolutely necessary. As an indication of the economy that has been practiced, the report states that twenty-five blocks have been paved with old spalls picked up from the streets. Further economy has resulted from the fawarding of contract for a large part of the It is remarked that the board real-

The board has attempted improvement of the Street Cleaning Depart-ment, and is impressed with the effectiveness of the patrol system, which has been tried in several sections of the city. It has also installed three street flushing machines.

The dumps are still found to be a bothersome question and it is hoped that some solution of the difficulty may be found, though, the report says, the expense will be inevitable.

Commends City Home Staff.

of the city's charity work, and the staff of physicians, surgeons and nurses at the City Hospital is commended. The work will be improved by the acceptance of the Virginia Hospital as a municipal hospital. The report shows that there has been a dework costing more than \$7,000.

Further improvement of the parks contemplated, and the report states "it may be worth while to mention that the expenditure for music in the parks during this year was larger than in any other previous year." also contemplates improvement to the cemeteries, but would be unwilling to undertake any work that would wound the sensibilities of those who have loved ones interred therein, and improvement will not be practicable un-til the custom of mounding graves is abandoned. Commendatory notice is taken of the playground work.

Should Not Sell Gas Works.

Detailed attention is paid to the various departments under the control of the board, and especial attention is paid to the report of Mr. Glasgow as to the Gas Department. It is the purpose of the board during the coming year, the report states, to employ the ablest specialist to be found to make and report to the board a complete surand report to the board defective methods used at the places of consumption. The Gas Works is wisely administered, the board finds, Kegley presiding. and should not be allowed to pass from its control.

In regard to the Water, Department, the board states that are protection for the lower congested business district of the city has been greatly improved by the installation of an increased number of fire hydrants. For South Richmond a sufficient supply of clear water for domestic use and a full supply for fire protection have been provided for.

In reviewing the work of the City period of eight months.

The report calls attention to the fact that on the death of the former harbor master the duties of tha office were consolidated with those of the dock improvements for the use of the master, and so the salary of one officer was saved to the city. The board also abolished the office or second assistant superintendent of the City Home.

For the further facilitation of its work, the board recommends, if it be possible, that the Council provides the commendation of the council provides the council provides

possible, that the Council provide by law some plan whereby the Adminis-

privately and quietly such small portions of land as may be necessary for the opening or extension of parts of streets or for the construction of severs or other city facilities, the object being to avoid the increase in prices which follow upon publication of the hoard's intentions

Some attention is paid to the progress the thermometer hovering around zero, and the wind blowing a severe gale, Joe Boothe, a respected citizen of Pisgah, who has a wife and eleven children, had the unusual and painful experlence of being forced to run a mile crease in building activity, owing to conditions general the country over, but several buildings have been completed, and repair work to the City Jail community, with whom he had a has been noticeably expensive, this fight. It is alleged that Howery went to the Boothe home and started a quarrel with Boothe, who hit him with an ax handle. Howery immedifor some time in the house, and later adjourned to the yard, where they con-tinued to fight with fists and knives. It soon became apparent to Boothe that he was being defeated, and he immediately took flight over the hills and fences to the home of O. E. Hopkins, where he was given shelter for the terday, and he was taken to Dr. J. W. Witten's Hospital at North Tazewell, where every effort is being made to life. It is believed that Boothe's feet will have to be amputated, they were so badly frozen. It is stated that the county authorities of the board, and especial attention is will make a thorough investigation paid to the report of Mr. Glasgow as of the affair.

The February term of Tazewell Circuit Court opened here to-day, Judge

For Sale

A rare opportunity is offered to engage in a profitable wholesale grocery business in Petersburg, Va. This business enjoys a large city and country patronage, is incorporated, The reviewing the work of the City country patronage, is incorporated, Chemist, the board finds that his sampling of the coal furnished the city has, and has been established for more for the manufacture of gas, resulted in rebates amounting to \$988 during a the owner is the only reason for sell-

P. O. Box 222, Petersburg, Va.

OF WAGES IS PAID

Fr a week, yet we find thousands of women receiving those amounts."

The commission recommended that the hours of labor of children between fourteen and sixteen years of age in mercantile establishments be limited to forty-eight hours a week, instead of fifty-four, as at present, and that the provision limiting the hours of labor of women in second-class cities to fifty-four hours a week, be extended to all the cities of the State.

Investigation into the wages paid to

placed up from the streets. Further economy has resulted from the faward-ing of contract for a large part of the street surface work. And in regard to general street improvement, it is said and office building, to cost about that it is extremely desirable that authority for issuing allegations, now resident in the Council, should be conferred upon the Administrative Board. In answer to the demand for the improvement of Shockoe Creek, the board has, at considerable expense, made a complete survey of the extreme western limits of the city, in the heighborhood of the Boulevard or Hermitage Road.

The board has attempted improve
TO DADID CLOUT

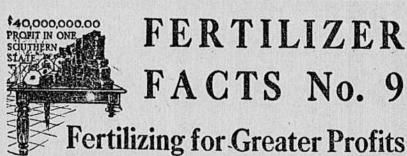
In the paper box industry the majority of women workers are rated under \$6.50 a week. Almost 2,000 women or nearly one-half of all over eighteen years of age in the trade, earn less than \$6 for a week's work. More than 7,000 girls under eighteen, or almost half of those reported, earn less than \$5 a week.

Night Clothes to Escape

Assailant.

[Special to The Times-Dispatch.]

Tazewell, Va., February 16.—With the thermometer hovering around zero, and the wind blowing a severe rate.



FACTS No. 9

The great economic question in Agriculture is: "Does it pay?" It is hardly worth while to deal with factors that show negative answers. Broad practices like the use of commercial fertilizers on the farm are accompanied with large gains to the farmers or they would not be uni-

versally employed. Henry Ward Beecher says: "We believe that soil likes to eat as well as its owner, and ought, therefore, to be liberally fed."

In order to show how expenditures for fertilizers compare with expenditures for other purposes we give the following interesting facts: One Southern State, not the largest one either, spends every

year for jewelry ________Nothing ______ Income from the expenditure—Nothing _____ This same state spends annually for insurance___ \$20,000,000 \$17,000,000 Returns in premiums and in paying losses \$10,000,000 Net loss each year from this source alone -\$ 7,000,000

Yet who will say that insurance is a poor investment. It is a necessity and when losses come proves a blessing The same state spends every year for commercial fertilizers about

\$25,000,000 Estimated increase in crop production from this source alone \$65,000,000 Or an added income of \$2.60 for every dollar spent on fertili-Net profit from the use of fertilizers

Increase is more than \$2.60 for every \$1.00 on good farms where the lands are well prepared, and the fertilizers do not have to do it all. Maximum net return on one ton of fertilizer where applied un-

der ideal conditions (not what may be done but what has been done)

This is possible on almost any ordinary farm in the cotton belt if rotation and deep tillage are thoroughly practiced for a few years.

It is of course true that the fertilizer rid not by itself give such results.

It was a combination of good fertilizer, good farmer and good farm-

There is no case on record where the application of fertilizers did not pay well on the investment.
What other business or material has such a universally good record?
The question is never: "Shall I use fertilizer?" but "How much?" and

The question is never: "Shall I use fertilizer?" but "How much?" and "How often?" and "What must I do to make the most out of the in-Write for free Bulletins on Cotton and Corn Culture.

SOIL IMPROVEMENT COMMITTEE Southern Fertilizer Association Atlanta, Ga., U. S. A.